Pending Claims:

Please amend the claims as indicated below.

1. (Original) An antenna feed assembly comprising:

a dipole;

a reflector; and

at least one bandpass filter element between said dipole and said reflector.

2. (Original) The antenna feed assembly of claim 1, wherein said dipole antenna is constructed on a substrate, and wherein said bandpass filter elements

comprise conductive traces fabricated on said substrate.

3. (Original) The antenna feed assembly of claim 2, wherein said substrate

comprises a printed circuit board.

4. (Original) The antenna feed assembly of claim 2, wherein said at least

one bandpass filter comprises a material selected from the group consisting of

metals and semiconductors.

5. (Original) The antenna feed assembly of claim 4, wherein said at least

one bandpass filter comprises a metal selected from the group consisting of

copper, brass, aluminum, and gold.

HAYES SOLOWAY P.C.

130 W. CUSHING ST. TUCSON, AZ 85701 TEL. 520.882.7623

FAX. 520.882.7643

175 CANAL STREET MANCHESTER, NH 03101

TEL. 603.668.1400 FAX. 603.668.8567

2

6. (Original) The antenna feed assembly of claim 2, wherein said at least one bandpass filter element comprises a first bandpass filter element and a second bandpass filter element.

7. (Original) The antenna feed assembly of claim 6, wherein said first and second bandpass filter elements are elongated rectangles parallel to an edge of said dipole.

8. (Original) The antenna feed assembly of claim 6, wherein said at least one bandpass filter element has a bandwidth of approximately 2400 MHz to approximately 2500 MHz.

9. (Currently Amended) A planar antenna feed assembly comprising:

a substantially planar substrate;

a dipole and a reflector provided on said substrate;

a first bandpass filter element provided on said substrate between said dipole and said reflector; and

a second bandpass filter element provided on said substrate between said dipole and said reflector;

10. (Original) The planar antenna feed assembly of claim 9, wherein said dipole has a width W_D and a length L_D ; said first bandpass element is an elongated rectangular having a length L_1 , a width W_1 , and a center line located S_1 from the

HAYES SOLOWAY P.C.

130 W. CUSHING ST. TUCSON, AZ 85701 TEL. 520.882.7623 FAX. 520.882.7643

175 CANAL STREET MANCHESTER, NH 03101 TEL. 603.668.1400 FAX. 603.668.8567 centerline of said dipole; said second bandpass element has a length L_2 , a width W_2 , and a center line located S_2 from said dipole; and wherein:

L₁/L_D is apporeximately 1.00;

 S_1/L_D is approximately 0.4;

S₂/L_D is approximately 0.20; and

 L_2/L_D is approximately 0.5.

11. (Original) The planar antenna feed assembly of claim 10, wherein W_1/W_D is approximately 0.18, and W_2/W_D is approximately 0.23.

12. (Original) The planar antenna feed assembly of claim 9, wherein said at first and second bandpass filter elements implement a bandpass filter having a bandwidth of approximately 2400 MHz to approximately 2500 MHz.

HAYES SOLOWAY P.C.

130 W. CUSHING ST. TUCSON, AZ 85701 TEL. 520.882.7623 FAX. 520.882.7643

175 CANAL STREET MANCHESTER, NH 03101 TEL. 603.668.1400 FAX. 603.668.8567